

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/JP 03/00972

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC 7 H02M3/00

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H02M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 635 175 A (PROBST HARALD) 6 January 1987 (1987-01-06) column 3, line 1 - line 3; figure 2 column 4, line 54 - line 68 -----	1-5
X	US 6 144 565 A (LETHELLIER PATRICE R) 7 November 2000 (2000-11-07) column 3, line 1 - line 3; figures 4,11 column 5, line 1 - line 3 column 3, line 38 - line 39 -----	1-5

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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- \*A\* document defining the general state of the art which is not considered to be of particular relevance
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- \*T\* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the International search

30 October 2003

Date of mailing of the International search report

05/11/2003

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# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/JP 03/00972

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
US 4635175	A 06-01-1987	DE EP	3369445 D1 0087593 A2	26-02-1987 07-09-1983
US 6144565	A 07-11-2000	NONE		